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TITLE: Phagemids CMPSIL-1 and CMPSIL-W10 - for over-expression of CMP-NeuAc synthetase (CMP sialic acid synthetase) in E. coli

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PATENT-ASSIGNEE: SCRIPPS RES INST (SCRI)

PRIORITY-DATA: 1994US-0219242 (March 29, 1994), 1991US-0670701 (March 18, 1991), 1991US-0707600 (May 30, 1991), 1991US-0738211 (July 30, 1991), 1992US-0852409 (March 16, 1992), 1995US-0476685 (June 7, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5593887 A	January 14, 1997	N/A	047	C12N001/21

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 5593887A	March 18, 1991	1991US-0670701	CIP of
US 5593887A	May 30, 1991	1991US-0707600	CIP of
US 5593887A	July 30, 1991	1991US-0738211	CIP of
US 5593887A	March 16, 1992	1992US-0852409	CIP of
US 5593887A	March 29, 1994	1994US-0219242	Div ex
US 5593887A	June 7, 1995	1995US-0476685	N/A
US 5593887A		US 5278299	CIP of
US 5593887A		US 5461143	Div ex

INT-CL (IPC): C07H 5/04; C12N 1/21; C12N 15/00

RELATED-ACC-NO: 1992-349221; 1992-433581 ; 1993-152415 ; 1994-048882 ; 1995-373270 ; 1998-332139

ABSTRACTED-PUB-NO: US 5593887A  
BASIC-ABSTRACT:

Phagemids CMPSIL-1 and CMPSIL-W10 are new. Also claimed are E. coli transformed with CMPSIL-1 and E. coli transformed with CMPSIL-W10.

USE - E. coli transformed with CMPSIL-1 produces a recombinant CMP-NeuAc synthetase enzyme as a fusion protein with a C-terminal decapeptide tag sequence (Tyr-Pro-Tyr-Asp-Val-Pro-Asp-Tyr-Ala-Ser) and E. coli transformed with CMPSIL-W10 produces the same enzyme without the tag sequence. The enzyme catalyses the formation of CMP-NeuAc from CTP and NeuAc and can be used in the synthesis of oligosaccharides that are substrates or inhibitors of glycosyltransferase and glycosidase enzymes.

ABSTRACTED-PUB-NO: US 5593887A  
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg. 0/3

DERWENT-CLASS: B07 D16 D17

CPI-CODES: B04-E01; B04-F10A3; B04-F10A3E; B04-L08; B04-L0800E; D05-H12E;  
D05-H14A1; D06-H;

5